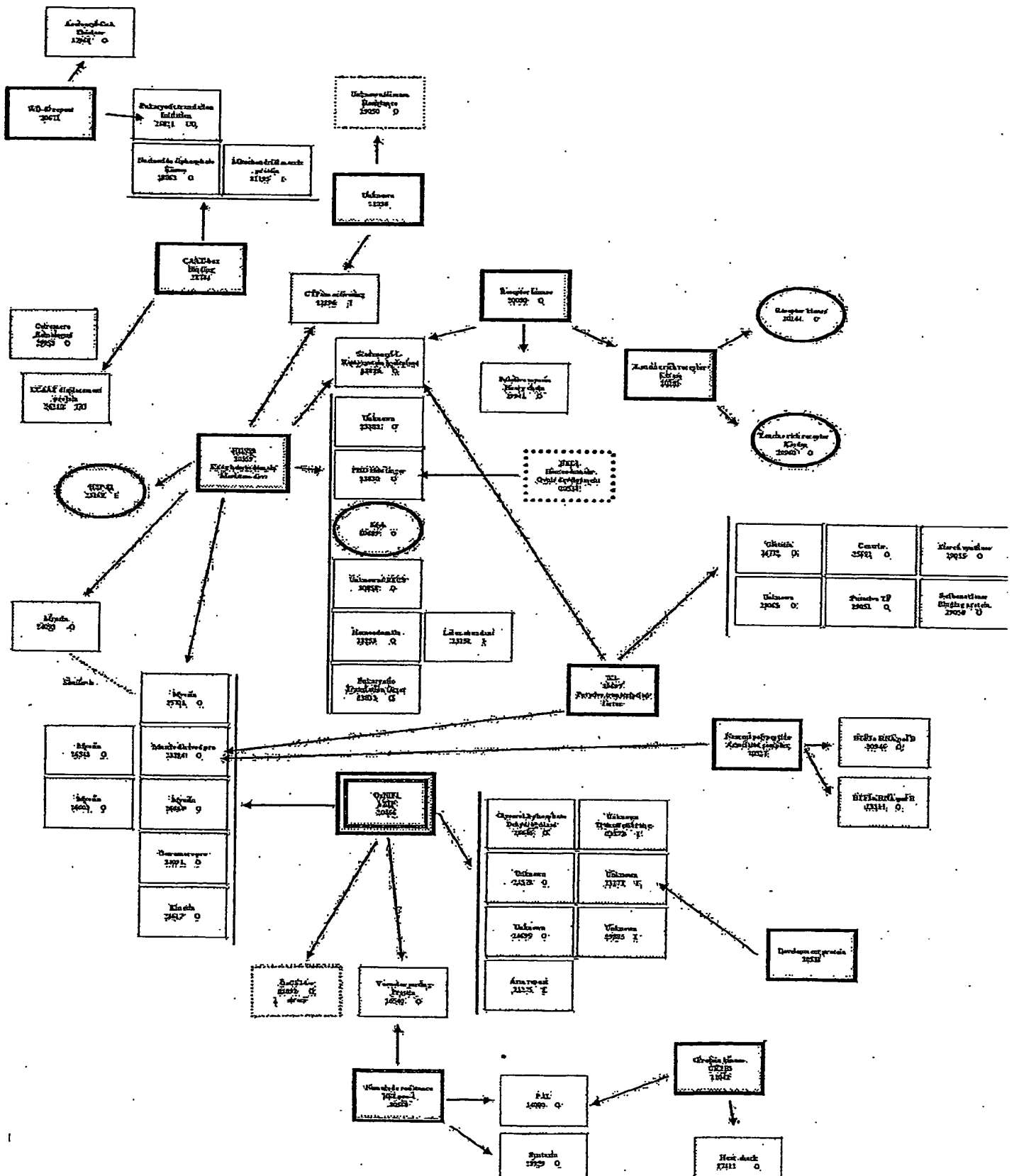


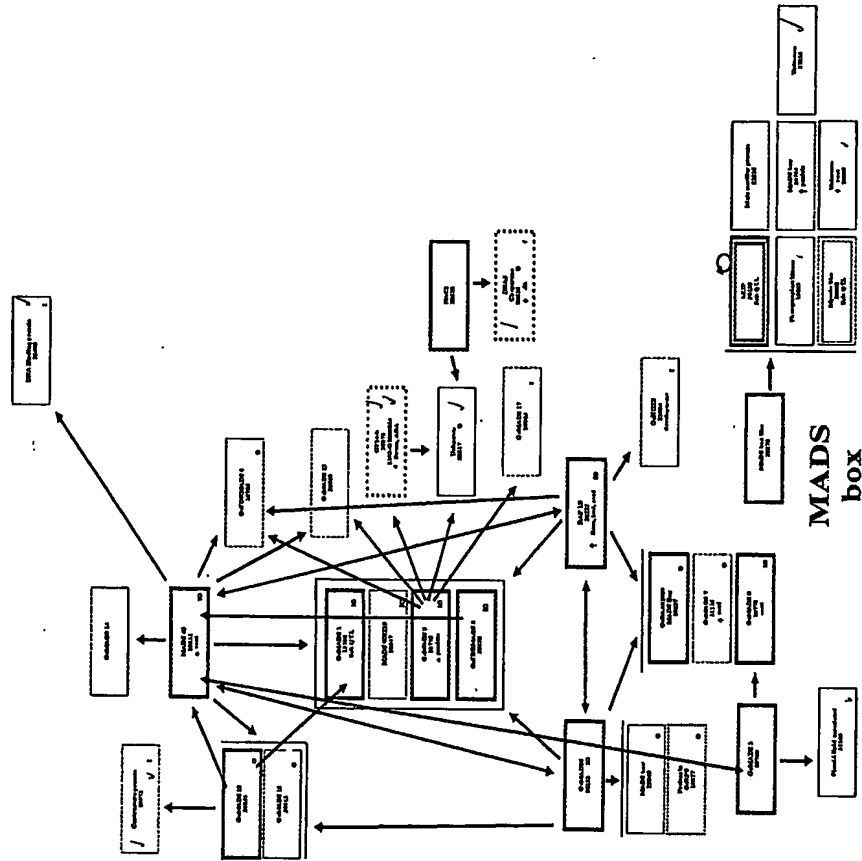
CELL CYCLE

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 FIGURE 1B





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19766 QLEKQLESSLKHRSRKTQLLEQISELQKEKSLQENKVLQKKLVETEK---GQVQVQVQ--WDQGGQGTTPA
19788 QLEQQLENS�KHRSRKSQMLSESINELQKEKSLQENKVLQKELVEKQK-VQKQK--VQWDQTQPQT
20231 QLENQIEVSLKQIRSRKNQALLDQLFDLKSKEQQLQDLNKDLRKKLQETS---AENVLHMSWQDGGGHS
20232 SLEKQLDSSSLKHVRTTRTKHLVDQTELQKEQMVSEANRCLRRKLEESNHRVGQVWEQGCNLLIGYER
20233 QLEQQLENS�KHRSRKSQMLSESINELQKEKSLQENKVLQKELVEKQK-VQKQK--LQWDQTQPQT
20278 QLEKQLECALSQARQKTQMLMEQVEELRRKERQGEINRQLKHKLEVEGSTSNYRAMQQASWAQG---
20668 GLEQNVDAAALKEVRHRKYHVITTTQETTYKKKVKHSYEA YETLQOELGLREEPAFGFVDNTGGWDG---
20698 QLESRLKGIKIRARKNELLASEINYMAREIELQNDNMDLRTKIAEEEEQQLQVTVARSAA MEL---
20700 GLEMKLEKSLHNIRLKKTELLERQIAKLKEKERTLLKDNENLRGKHRNIEAAALVANHMTTTTAPA---
20770 QVENRLEKGIKIRARKNELLAYAEVEMQKREVELQNDNMVLRKSVENERGQQPLNMMGAAS-----
20778 QLENQIEISLMNIRSSKNQQLLDQVFFELKRKEQQLQDANKDLKRKIQETS---GENMLHISCQDVG-PS
20837 QLEKQLEAGLHRVMLTKDQQFMEOISELQKSSQLAENMQLRNQSISP AEKQVV--DTENFVTEGQ
20842 QLEQQLLESSLKHIIIRKSHLMLESISELQKKERSLOEENKALQKELVERQKNVRGQVQVQWDQTQVQA
20847 ELEKSLESGLGSVLTKSKKILDEIDGLERKRMQLIEENLRKKEQVSRMSRMEEMQPGPDSEI VYEEGQ
20910 QLEQQLENS�KHRSRKSQMLSESINELQKEKSLQENKVLQKELVEKQK-VQKQK--VQWDQTQPQT
20912 QLEHQLEYSLKHRSKKNQQLLFESISELQKKEKSLKNQNNVLQK-LMETEK--EKNNAIINTNREEQNG
20914 QLEKQLEYSLSQARQKTQIMMEQVDDLRRKERQGLGNKQLKNKLEAEADSSNCRSAIQDSWWHG---
21116 SLEKQLDSSSLKHVRTTRTKHLVDQTELQKEQMVSEANRCLRRKLEESNHRVGQVWEQGCNLLIGYER
29949 GLENRLEISLRNIRMRKDNLLKSEIEELHVKGSLHQENIELSRSLNVMSSQKLELYNKLQACEQ-----

FIGURE 3A

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Cons. -A-QQ-PHSSS-F-HREAA-EPTLNIGY---AAGERIA-----Q-----LPP-WML-----
19766 -----SSSSSSFFMREA---LPTTNISN-YPAAAGER-----IEDVAAGQPQHVRIG-LPPWMLSHING-----
20910 -----SSSSSSFFMREA---LPTTNISN-YPAAAGER-----IEDVAAGQPQHERIG-LPPWMLSHING-----
20232 -----ISSSSSFFMREA---LPTTNISN-YPAAAGER-----IEDVPAGQPQHVRIG-LPPWMLSHING-----
20842 QAQAQQAQTSSSSSMLRDQQAALLPPQNICY-PPVMMGERNDAAAAAQAQGVQLRIGGLPPWMLSHLNA-----
20912 -----ATPSTSSPTPVTA DPPIPTTNNSQSQPRGSGES-----EAQPSPAQAAGNSKLPWPWMLRTSHT-----
19788 GS-----STVLADQPHHHQGLLHPHPDQGDHSLQIGYH-----HPH-AHHHQAYMDHLSNEAADWVAHHPNEHIPSGWI-----
20770 G-----HASEANQEFLLHHAICDP-----SLHIGY-----QAYMDHLNQ-----
20231 QP-----EVQQ-PLHGGNGFFHPLDAAAGEPTLQIGYP-----AEHHEAMNSACMNTYMPWPWL-----
21116 QP-----EVQQ-PLHGGNGFFHPLDAAAGEPTLQIGYP-----AEHHEAMNSACMNTYMPWPWL-----
20778 QSP-----HAVQQVPPHGGNGFFHSLFAAAEPTLQIGFT-----PEQ---MNNSCVTAFMPTWLP-----
20233 -----AVVENG-AAVYVQPPPHSAAMDSEPTLQIGYP-----HQFVPAEANTIQRSTAPAGAE-----NNFMLGWVL-----
20914 -----TVVSGGRVNLNAQPPD---IDCEPTLQIGY-----YQFVRPEAANPRSNNGGGDQN-----NNFVMGWPL-----
20698 -----AWPRDVPMTSSTAGAADAMDVETDLYIGLP-----GTERSSNRSETG-----
20668 -----QAAAAAQQQQONPFVAAQAQLDMKCFPLNLFEAAAQVQAVAAQRQOIIPTELNLGYHHHIAIPGATAADAPPPHF-----
20700 -----TSEYDHMVNPNY-----DSRNFLQVNIMQ---QPQHYAHQLQ---PTTLQLGQQQAFN-----
29949 -----RGATANESSSTPY-----SFRIIQANMPPSLELSQSQQREGECSKTAAPGLGLHP-----
20278 -----GAGAGAAAD-----MFAFRVVPSPNHLHGMAYGGN---HDLRLG-----
20837 -----SSESVM TALHSGSSSQSDNDGSDVSLKGLPCGAWK-----
20847 -----SSESVTNASYP---RPPPDNDYSSDTSCLKGLHS-----

FIGURE 3B

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Cons. -----MGRGRVELKRIENKINRQVTGSKRRNGLLKAYELSVLCDAEVALIIFSSRGKLYEFASS
19766 -----MGRGKVQLKRIENTINRQVTFSKRRSGLLKANEISVLCDAEVALIIFSTKGKLYKYATDS
20910 -----MGRGKVQLKRIENKINRQVTFSKRRSKLLKANEISVLCDAEVALIIFSTKGKLYEYATDS
20232 -----MGRGKVQLKRIENKINRQVTFSKRRSGLLKANEISVLCDAEVALIIFSTKGKLYEYATDS
20842 -----MGRGKVQLKRIENKINRQVTFSKRRNGLLKKAHEISVLCDAEVAIIFSPKGKLYEYATDS
20912 -----MGRGPVQLRRRIENKINRQVTFSKRRNGLLKKAHEISVLCDAEVALIIVFSTKGKLYEFSSH
19788 -----MGRGKVELKRIENKISRQVTFAKRRNGLLKAYELSVLCDAEVALIIFSGRGLFEFSSSS
20770 -----MGRGKVELKRIENKISRQVTFAKRRNGLLKAYELSVLCDAEVALIIFSTRGLFEFSTSS
20231 -----MGRGRVELKRIENKINRQVTFAKRRNGLLKAYELSVLCDAEVALIIFSNRGKLYEFCSTQ
21116 LVGGSWRSIGMGRGRVELKRIENKINRKVTFAKRRNGLLKAYELSVLCDAEVALIIFSNRGKLYEFCSTQ
20778 -----MGRGRVELKRIENKINRQVTFAKRRNGLLKAYELSVLCDAEVALIIFSNRGKLYEFCSGQ
20233 -----MGRGRVELKRIENKINRQVTFSKRRNGLLKAYELSVLCDAEVALIIFSSRGKLYEFGSAG
20914 -----MGRGRVELKRIENKINRQVTFSKRRNGLLKAYELSVLCDAEVALIIFSSRGKLYEFGSAG
20698 MV-----RGRTTELKRIENTSRQVTFSKRRNGLLKAFELSVLCDAEVALIIVFSPRGRLYEFASAP
20668 -----MGRGRIEIKRIENTTSRQVTFCKRRNGLLKAYELSVLCDAEVALIIVFSSRGRLYEYSNNN
20700 -----MGRGKIEIKRIENTNRQVTFCKRRNGLLKAYELSVLCDAEVALIIVFSSRGRLYEYANN-
29949 -----MGRGKIVIRRIDNSTSRQVTFSKRRNGLLKAKELSVLCDAEVLVFSSTGKLYEFSST-
20278 -----MGRGKIEIKRIENATNRQVTSKRRTGIMKKARELTVLCDAQVAIIMFSSTGKHEFCSPST
20837 MA-----RERREIKRIESAAARQVTFSKRRRGLFKKAEELSVLCDAEVALIIVFSSTGKLSHFASSS-
20847 EGEG--RAATGKRERIAIRRIDNLAARQVTFSKRRRGLFKKAEELSVLCDAEVLVFSATGKLFQFASTS-

FIGURE 3C

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Cons. S-MTKTLERYQRYSYA-ESAVISAESETQGSWYQYELKLKAKVEALQKTQRH-----LLGEDLESLSLKELQ

19766 CMDKILERYERYSYAEK--VLI SAESDTQGNWCHEYRKLKAKVETIQKCQ-KHLMGEDLESNLKELQ

20910 CMDKILERYERYSYAEK--VLI SAESDTQGNWCHEYRKLKAKVETIQKCQ-KHLMGEDLESNLKELQ

20232 CMDKILERYERYSYAEK--VLI SAESDTQGNWCHEYRKLKAKVETIQKCQ-KHLMGEDLESNLKELQ

20842 RMDKILERYERYSYAEK--ALISAESSEGNWCHEYRKLKAKIETIQKCH-KHLMGEDHESNLKELQ

20912 SMEGILERYQRYSFDER--AVLEPNTEDQENWGDEYGIKSKLDALQKSQ-RQLLGEQLDITLTTKELQ

19788 CMYKTLERYRSCNYSN-----QDAAAAPENEIN-YQEYLYKLKTRVEFLQTTQ-RNLLGEDLGPLSMKELE

20770 CMYKTLERYRSCNYSNLN-SCEASAALETELSNYQYELKLKTRVEFLQTTQ-RNLLGEDLVPLSLKELE

20231 SMTKTLEKYQKCSYAGPETAVQNRESEQLKASRNEYLYKLKARVENLQRTQ-RNLLGEDLDSLGIKELE

21116 SMTKTLEKYQKCSYAGPETAVQNRESEQLKASRNEYLYKLKARVENLQRTQ-RNLLGPDLDLSLGIKELE

20778 SMTRTLERYQKFSYGGPDTAIONKENELVQSSRNEYLYKLKARVENLQRTQ-RNLLGEDLGTGIGIKELE

20233 -ITKTLERYQHCCYNAQ-DSNNALS--ETQSWYHEMSKILKAKFEALQRTQ-RHLLGEDLGPLSVKELQ

20914 -INKTLEKYNSCCYNAQ-GSNSALAGGEHQSWYQEMSRLKTKLECLQRSQ-RHMLGEDLGPLSIKELQ

20698 SLQKTIIDRYKAYTKDHV---NNKTIQQDIQQVKDDTLGLAKKLEALDESR-RKILGENLEGCSIEELR

20668 NVKATIIDRYKKAHACGSTSGAPLIEVNAQYQQESAKLRHQIQMLQNTN-KHLVGDNVSNLSLKELK

20700 SVKSTIVERYKKANSDTNSGT-VAEVNAQHY-QQESSKLQQISSLQNSRTIVGDSINTMSLRDLK

29949 NMKTVIDRYTNAKEELGNA-----TSEIKIWQREAAASLRQQLHNLQESH-KQLMGEELSGLGVRDLQ

20278 DIKGIFDRYQQAIGTS-----LWIEQYENMORTLSHLKDINRNLRTET-RQRMGEDLDGLEFDEL

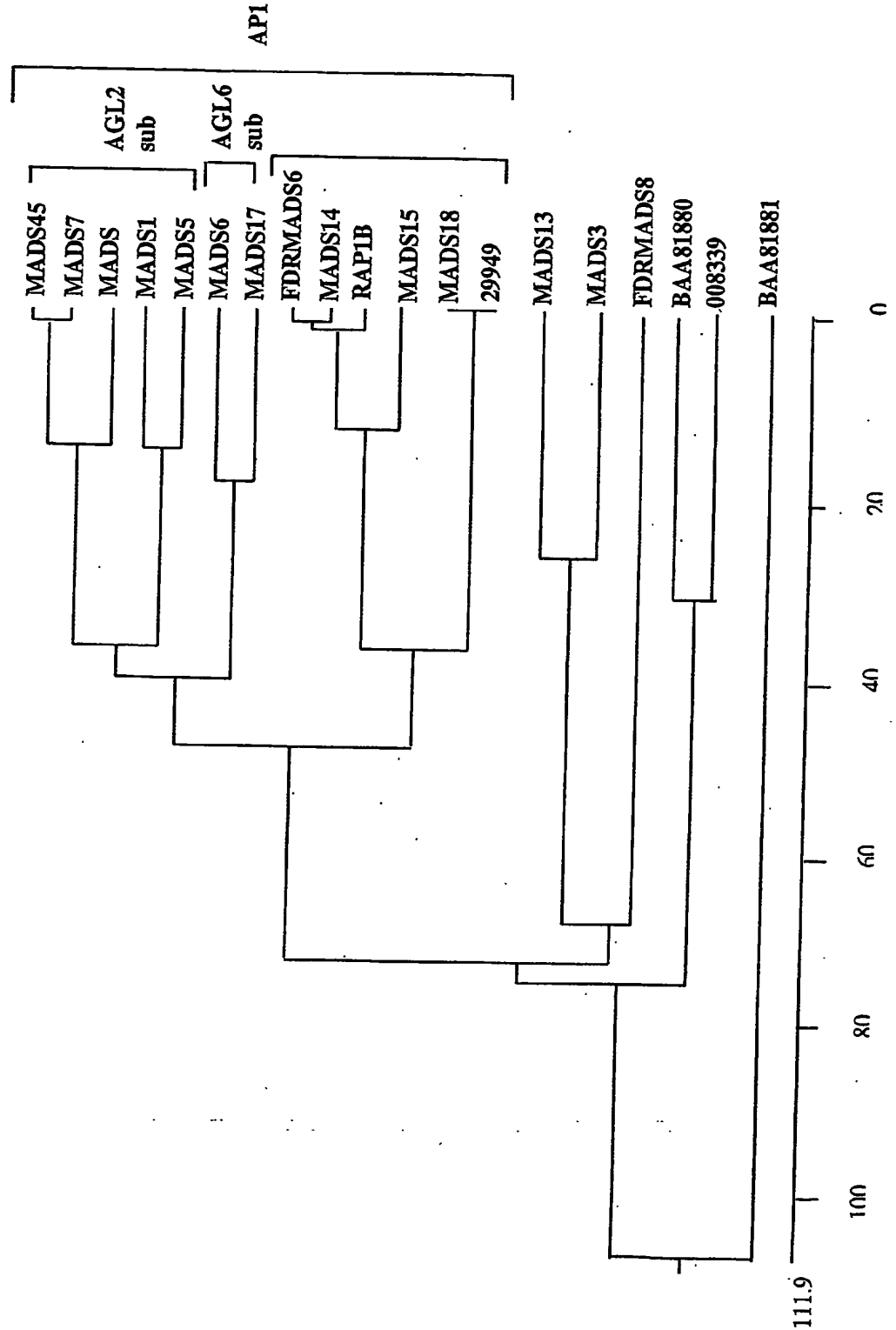
20837 -MNEIIDKYNTHSNNLG--KAEQPSLDLNLNLEHS-KYAHNLNEQLAEASLRL-RQMRGEELEGLSIDELO

20847 -MEQIIDRYNSHSKTLQ--RAEPSQLDLOQEDSSSTCARLKEELAETSRL-RQMRGEEELHRLNVEQLQ

FIGURE 3D

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FIGURE 3E



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Fig. 4

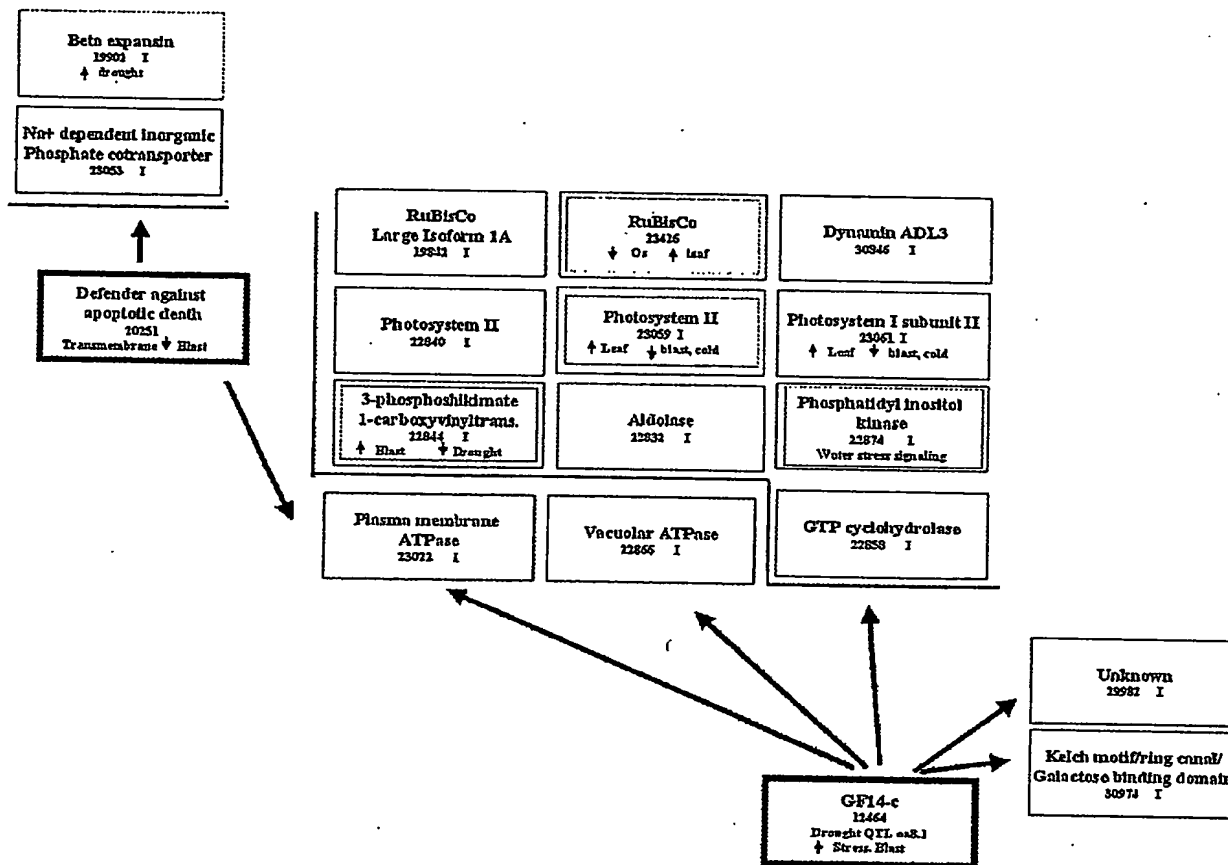
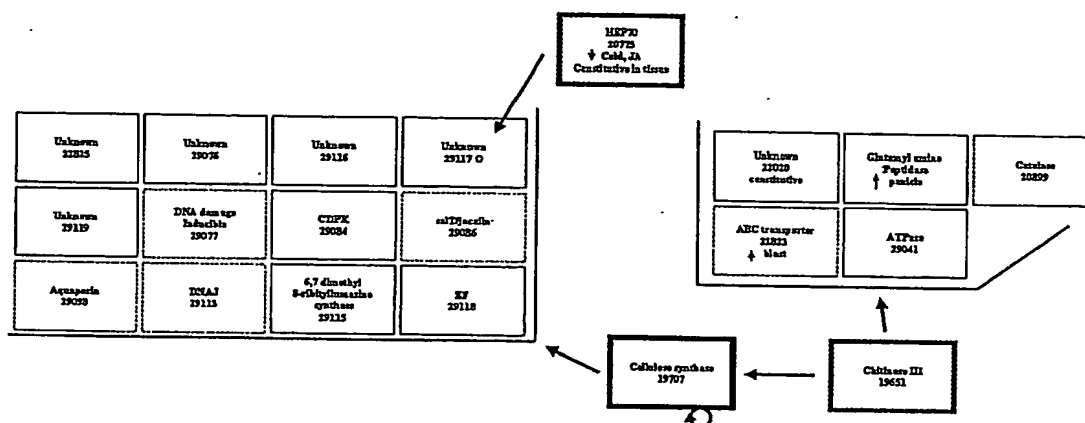


Fig. 5

CHITINASE AND CELLULOSE SYNTHASE INTERACTIONS



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Fig. 6

